



New England Testing Laboratory, Inc.
(401) 353-3420

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 9G08022

Client Project: Nutrient Testing

Report Date: 18-July-2019

Prepared for:

Aaron Fox
Lowell Regional Wastewater
451 First St. Blvd
Lowell, MA 01852

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New England Testing Laboratory, Inc.
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West Warwick, RI 02893
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Samples Submitted:

The samples listed below were submitted to New England Testing Laboratory on 07/08/19. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 9G08022. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled
9G08022-01	Inf	Water	07/08/2019
9G08022-02	Plt. Eff	Water	07/08/2019

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

Sample Name: Inf

Analysis	Method	Analyst
Nitrate and Nitrite as N	4500-N03-E	ESN
Ammonia	SM4500-NH3-D	cpm
Total Kjeldahl Nitrogen	SM4500NH3-D	cpm
Total Phosphorous	SM4500-P-E	DC

Sample Name: Plt. Eff

Analysis	Method	Analyst
Nitrate and Nitrite as N	4500-N03-E	ESN
Ammonia	SM4500-NH3-D	cpm
Total Kjeldahl Nitrogen	SM4500NH3-D	cpm
Total Phosphorous	SM4500-P-E	DC

The analytical methods provided are documented in the following references:

Manual of Methods for Chemical Analysis of Water and Water Wastes, EPA-600/4-79-020 (Revised 1983), USEPA/EMSL.

Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, APHA, AWWA-WPCF.

40 CFR 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act*, Office of Federal Register National Archives and Records Administration.

Results:

Sample: Inf
9G08022-01 (Water)

General Chemistry

	Result	Reporting Limit	Units	Date Analyzed
Ammonia	23.5	0.5	mg/L	07/11/19
Kjeldahl Nitrogen	30.1	1.0	mg/L	07/15/19
Nitrate and Nitrite as N	0.04	0.03	mg/L	07/16/19
Total Phosphorous	4.47	0.10	mg/L	07/17/19

Sample: Plt. Eff
9G08022-02 (Water)

General Chemistry

	Result	Reporting Limit	Units	Date Analyzed
Ammonia	3.4	0.1	mg/L	07/11/19
Kjeldahl Nitrogen	4.6	1.0	mg/L	07/15/19
Nitrate and Nitrite as N	10.0	0.75	mg/L	07/16/19
Total Phosphorous	2.34	0.04	mg/L	07/17/19

Case Narrative

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

All samples were analyzed in accordance with 40 CFR 136 approved methodologies.

New England Testing Laboratory

1254 Douglas Avenue
North Providence, RI 02904
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Chain of Custody Review

Project No.		Project Name/Location: Quarterly Nutrients		Tests**	
Client: Lowell Regional Wastewater Utility		Email		Preservative Codes	
to: tkawa@lowellma.gov		afcx@lowellma.gov		Total Phosphorus	
Report To: Tom Kawa		AARON FOX		Ammonia Nitrogen	
Invoice To: Lowell Regional Wastewater Utility		Matrix Code		Total Kjeldahl Nitrogen	
Date		Time	Grab	Sample I.D.	No. of Containers & Types
7-18-2019	00:00	V		IN F	1 P
7-18-2019	00:00	V		P.L.T. EFF	1 P
Conatiner Type:		P=Poly, G=Glass, AG=Amber Glass, V=Vial, ST=Sterile		Special Instructions:	
Preservation Code:		NP=None, N=HNO3, H=HCL, S=H2SO4, SH=NaOH, M=MeOH, T=Na2S2O3		ANALYSIS PER WPDES PERMIT	
Matrix Code:		GW=Ground Water, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil		Laboratory Remarks:	
Sampled By:		Date/Time	Received By:	Relinquished By:	
Relinquished By:		Date/Time	Received By:	Temp. Received:	
7/19/19		12:05 PM	Belew	4	
7/18/19		12:05 PM	Belew	5	
**Netlab Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Samonella, Carbamates					
Turnaround Time [Business Days]: 5 Days					